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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Vega MASIGNANI et al.

Serial No.: 10/562,191

Filing Date: October 26, 2006

Examiner: V.L. Ford

Art Unit: 1645

Confirmation No.: 4113

Customer No. 27476

For: VIRULENCE-ASSOCIATES ADHESINS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT
APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE
AND/OR AMINO ACID SEQUENCE DISCLOSURES**

Dear Sir:

In response to the Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures, mailed December 22, 2010, transmitted herewith are:

- [X] A paper version of the substitute Sequence Listing is not enclosed because the response is being filed via EFS.
- [X] A text version of the substitute Sequence Listing.
- [X] An amendment.

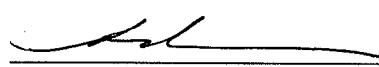
The Commissioner is hereby authorized to charge any necessary fees associated with this communication, or credit any overpayment to Deposit Account No. 18-1648.

Date: 1/21/2011

Respectfully submitted,

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By:


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